## Appendix 3-2a: Non-ECP Water Quality Sampling Sites, Monitoring Schedule, and Flow Volumes

Table 1. Water quality monitoring schedule for non-Everglades Construction Project (non-ECP) discharge structures and additional upstream monitoring locations.

AREA	Non-ECP PERMIT	WATER QUALITY		WATER QUALITY	WATER QUALITY COMMENTS						
ANLA	STRUCTURE	SAMPLING SITE	Physical	Nutrients	Major Ions	Trace Metals	Pesticides Water	Pesticides Sediment	WATER QUALITY COMMENTS		
	ACME1DS	ACME1DS	BWF/M	BWF/M	QTR	SA	QTR	SA			
	ACME1 + (Upstream of ACME1DS)	VOW1		Weekly Flowing (autosampler)					Sampling conducted by Village of Wellington. TP collected by autosampler.		
	G-94D	G94D	BWF/M	BWF/M	QTR	SA	QTR	SA			
	ACME2 + (Upstream of G94D)	VOW2		Weekly Flowing (autosampler)					Sampling conducted by Village of Wellington. TP collected by autosampler.		
	G-123	G123	BWF/M	BWF/M (autosampler)	QTR	SA	QTR	SA			
	S-9	S9	BWF/M	Weekly Flowing (autosampler)	QTR	SA	QTR	SA	TP collected by autosampler.		
INTO	S-9A	S9A	BWF/M	BWF/M except TP-WF/M Grab (autosampler)	QTR				New station, sampling started in WY200		
	S-14	S14	BWF	BWF	QTRF	SAF					
	S-18C	S18C	BWF/M	BWF/M (autosampler)	QTR	SA	QTR	SA			
	S-140	S140	BWF/M	BWF/M (autosampler)	QTR	SA	QTR	SA	TP collected by autosampler, nitrogen species collected by grab		
	S-175	S175	BWF/M	BWF/M	QTR	SA					
	S-190	S190	BWF/M	BWF/M (autosampler)	QTR	SA	QTR	SA	TP collected by autosampler, nitrogen species collected by grab		
	S-332	S332	BWF/M	BWF/M	QTR	SA	QTR	SA	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
		NSIDSP01	BWF	BWF	QTRF	SAF	QTRF	SAF	TP collected by autosampler		
	NSID1	S38B	BWF	BWF	QTRF	SAF	QTRF	SAF			
	G-64	G64	BWF	BWF	QTRF *		i i		Monitoring Fe, Mg, Ca phased out *		
	G-69	G69	BWF	BWF	QTRF *				Monitoring Fe, Mg, Ca phased out *		
	G-71, S-346, S-347	S12D	BWF/M	BWF/M	QTR *				Monitoring Fe, Mg, Ca phased out *		
	S-10E	S10E	BWF/M	BWF/M	QTR *		<u> </u>		Monitoring Fe, Mg, Ca phased out *		
	S-141	S34	BWF/M	BWF/M	QTR *				Monitoring Fe, Mg, Ca phased out *		
	S-142	S142	BWF/M	BWF/M	QTR *		QTRF	SAF	Monitoring Fe, Mg, Ca phased out *		
WITHIN		S11A	BWF/M	BWF/M	QTR *		Ψ	0711	Monitoring Fe, Mg, Ca phased out *		
	S-144	S144	·						Discontinued sampling in favor of surrogate location at S-145 *		
	S-145	S145	BWF/M	BWF/M	QTR *				Monitoring Fe, Mg, Ca phased out *		
	S-146	S146							Discontinued sampling in favor of surrogate location at S-145 *		
	S-151	S151	BWF/M	BWF/M	QTR *				Monitoring Fe, Mg, Ca phased out *		
	S-339, S-340 G-94A, G-94B,	C123SR84	BWF/M	BWF/M	QTR *				Monitoring Fe, Mg, Ca phased out *		
	G-94C S-31	G94B S31	BWF/M BWF/M	BWF/M BWF/M	QTR *		QTR	SA	Monitoring Fe, Mg, Ca phased out *  Monitoring Fe, Mg, Ca phased out *		
	S-34	S34	BWF/M	BWF/M	QTR *		QIII	- OA	Monitoring Fe, Mg, Ca phased out *		
	S-38	S38	BWF/M	BWF/M	QTR *				Monitoring Fe, Mg, Ca phased out *		
	S-39	S39	BWF/M	BWF/M	QTR *				Monitoring Fe, Mg, Ca phased out *		
FROM	S-197	S197	BWF	BWF	QTRF *				Monitoring Fe, Mg, Ca phased out *		
	S-333	S333	BWF/M	BWF/M	QTR	SA			5 . 5		
	S-334	S334	BWF/M	BWF/M	QTR *				Monitoring Fe, Mg, Ca phased out *		
	S-337	S31	BWF/M	BWF/M	QTR *				Monitoring Fe, Mg, Ca phased out *		
	S-343A, S-343B	US41-25	BWF/M	BWF/M	QTR *		<u> </u>		Monitoring Fe, Mg, Ca phased out *		
	S-344	S344	QTR	QTR	QTR *				Monitoring Fe, Mg, Ca phased out *		
	S-174 +	S176	BWF/M	BWF/M	QTR	SA	QTR	SA			
	S-177 +	S177	BWF/M	BWF/M	QTR	SA	QTR	SA			
C-111	S-178 +	S178	BWF/M	BWF/M	QTR	SA	QTR	SA			
BASIN	S-331 +, S-173 +	S331-173 S331	BWF/M	BWF/M	QTR	SA	QTR	SA	S173 is not listed in Permit, but is adjacent to and flows in same directio as S331		
	S332-B	S332B	BWF	BWF			QTR				
		BurmB3	BWF								
	Berm B3			BWF			QTR				
	S-332C	S332C	BWF	BWF	-		QTR				
	S-332D	S332D & S332DAS	BWF	BWF			QTR		S-332D is not listed in Permit, but it needs to provide information		

- Notes: 1) Water quality sample site is located on upstream side of permitted structure, unless otherwise noted with different representative sampling location.

  2) Structure names with a "+" are upstream of Non-ECP INTO structures and are additional monitoring locations.

  - 3)  $^{\star}$  indicates monitoring requirement eliminated in the November 1999 Non-ECP Permit Modification.

4) Table Legend:

BWF/M = Biweekly if Flowing/Otherwise Monthly

BWF = Biweekly if Flowing

QTR = Quarterly

QTRF = Quarterly if Flowing

SA = Semiannually

SAF = Semiannually if Flowing

1 WS - 1 DS = 1 Wet Season and 1 Dry Season

**Table 2**. Flow volume and annual flow-weighted mean total phosphorus (TP) concentrations for non-ECP structures during Water Year 2005 (WY2005) (May 1, 2004 through April 30, 2005).

AREA	NON-ECP PERMIT STRUCTURE	WATER QUALITY SAMPLING SITE	FLOW		Monthly Flow Volumes (acre-ft) (May 1, 2004 - April 30, 2005												Total Flow	Annual Flow Weighted
AREA			STATION	DBKEY	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Volume (acre-ft)	Mean TP (ppb)
	ACME1DS	ACME1DS	n/a	n/a		See flow data from ACME 1									n/a	126		
	ACME1 + (Upstream of ACME1DS)	VOW1	ACME1	OH647	134	0	0	1,189	7,188	2,306	231	0	0	0	986	284	12,317	133
	G-94D	G94D	n/a	n/a					See f	low data	from A	CME 2	2				n/a	213
	ACME2 + (Upstream of G94D)	VOW2	ACME2	OH648	421	75	0	1,089	6,152	2,027	306	0	0	0	1,032	144	11,246	212
	G-123	G123	G123_P	K5481	0	0	0	0	0	0	0	0	0	0	0	0	0	NPF
0	S-9	S9	S9_P	K5483	1,673	1,959	4,847	35,775	31,054	7,708	0	0	400	1,669	8,006	311	93,403	19
OTNI	S-9A	S9A	S-9A	TA415	739	1,912	5,497	7,240	4,043	14,963	3,669	1,188	6,395	1,996	6,528	2,415	56,584	12
	S-14	S14	S14_C	K5485	0	0	0	0	0	0	0	0	0	0	0	0	0	NPF
	S-18C	S18C	S18C_S	15760	90	335	5,154	21,124	18,460	25,174	21,506	5,846	1,608	756	384	251	100,689	9
	S-140	S140	S140_TOT	06754	6	11,863	13,988	46,048	34,668	14,857	4,035	0	985	401	8,469	2,657	137,976	42
	S-175	S175	S175_C	15752	0	1	0	0	0	366	1	0	0	5	0	0	374	5
	S-190	S190	S190_S	K5501	7	2,034	4,387	45,730	33,401	6,995	284	50	21	4	1,613	54	94,581	97
	S-332	S332	S332_P	15753	0	0	0	0	0	1	0	1	39	1	535	0	577	NPF
	NSID1	NSIDSP01	NSPRNG_C2A	PS225	0	0	0	0	354	0	0	0	0	0	0	0	354	20
	NOIDT	S38B	n/a	n/a		See flow data from NSPRNG_C2A nd												
	G-64	G64	G64_C	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	G-69	G69	G69_C	K5480	276	397	381	281	334	503	498	145	146	92	113	57	3,224	NPF
	G-71, S-346, S-347	S12D	S12D_S	FE774	4,445	0	0	12,373	44,154	69,245	46,352	37,031	2,803	0	270	5,837	222,510	11
	S-10E	S10E	S10E_C	K5484	0	0	0	0	0	0	0	0	0	0	0	0	0	nd
	S-141	S34	S141_W	K5493	0	0	0	0	0	300	182	0	0	0	0	0	482	15
_	S-142	S142	S142_C	K5494	2,245	4,015	2,853	1,824	1,370	19,031	19,833	10,643	3,326	2,886	2,481	13,803	84,310	20
NIHLIM	S-143	S11A	S143_C	K5495	0	0	0	0	0	0	0	0	0	0	0	0	0	NPF
≷	S-144	S144	S144_C	K5497	0	0	583	7,148	3,454	6,685	1,583	5,922	2,210	0	318	2,368	30,270	nd
	S-145	S145	S145_C	K5498	0	0	1,496	8,475	4,137	7,681	1,723	7,508	4,872	33	528	3,159	39,611	8
	S-146	S146	S146_C	K5499	0	0	0	6,338	3,591	6,904	1,528	5,131	1,662	0	244	168	25,567	nd
	S-151	S151	S151_C	K5500	7,714	48,778	19,953	82	62	24,624	41,621	16,991	0	0	5,776	31,721	197,321	22
	S-333	S333	S333_S	15042	4,573	3	0	4,212	4,290	9,960	36,940	21,666	2,817	24,306	27,702	46,859	183,327	12
	S-339	C123SR84	S339_S	K5506	0	556	11,723	0	37,710	30,677	11,722	0	0	0	0	4,476	96,863	23
	S-340	C123SR84	S340_S	K5507	0	1,665	17,741	0	23,211	25,996	19,514	0	19,497	22,568	14,922	4,886	150,002	26

Notes: 1) Water quality sample site is located on upstream side of permitted structure, unless otherwise noted with different sampling location.

<sup>2)</sup> n/a indicates that flow and/or stage data is not available, or that structure is not appropriately instrumented to capture information.

<sup>3)</sup> Structure names with a "+" are upstream of Non-ECP INTO structures and are additional monitoring locations.

<sup>4)</sup> ACME1DS and G-94D are not instrumented for flow calculation. Flow-weighted mean TP concentration was determined by considering the TP data from these sites with the flow data from the upstream pump stations (ACME 1 and ACME 2, respectively).

<sup>5)</sup> G-123 structure is not monitored for flow (reported volume is an estimate), arithmetic mean TP was calculated by considering all samples collected.

<sup>6)</sup> S-14 is not instrumented for flow calculation, however operational records indicate no operation during the water year.

<sup>7)</sup> NPF indicates either structure closed or that no positive flow was recorded on sampling days, thus a flow-weighted mean could not be calculated.

Table 2. Continued.

AREA	NON-ECP PERMIT STRUCTURE	WATER QUALITY SAMPLING SITE	FLOW		Monthly Flow Volumes (acre-ft) (May 1, 2004 - April 30, 2005													Annual Flow Weighted
			STATION	DBKEY	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Flow Volume (acre-ft)	Mean TP (ppb)
	G-94A	G94B	G94A_C	TA422	4,926	7,719	7,240	0	0	0	0	1,094	2,643	4,816	0	1	28,439	289
	G-94B	G94B	G94A_C	TA423	0	0	0	0	0	0	0	0	0	0	296	2,614	2,910	30
	G-94C	G94B	G94C_C	TA424	0	0	0	0	0	0	0	5,735	6,025	2,925	1,231	2,697	18,614	227
	S-31	S31	S31_C	K5486	0	2	0	0	0	18,619	30,824	13,812	0	0	5,501	27,105	95,862	12
	S-34	S34	S34_C	K5487	1,859	4,941	3,342	0	1,133	18,709	20,637	12,953	4,420	3,381	1,824	17,986	91,185	18
5	S-38	S38	S38_C	K5488	8,862	10,852	8,418	1	1,149	24,948	28,842	19,297	6,332	5,543	4,289	19,044	137,578	18
FROM	S-39	S39	S39_S	K5489	7,158	6,665	3,510	2	1,331	13,977	825	2,337	540	2,570	5,635	7,278	51,828	54
	S-197	S197	S197_C	15763	0	0	0	0	0	2,359	0	0	0	0	0	0	2,359	6
	S-334	S334	S334_S	FB752	17	22	27	34	0	9,453	37,018	17,270	2,690	19,419	23,365	37,205	146,520	12
	S-337	S31	S337_C	K5505	5,318	12,313	21,006	0	0	0	0	0	0	0	0	3,352	41,989	16
	S-343A	US41-25	S343A_C	K5508	0	0	0	2,088	3,163	13,597	206	0	0	0	0	0	19,054	10
	S-343B	US41-25	S343B_C	K5509	0	0	0	2635	3255	13383	208	0	0	0	0	0	19,480	10
	S-344	S344	S344_C	K5511	0	0	0	1,191	1,778	7,901	112	0	0	0	0	0	10,982	11
	S-174 +	S176	S174_S	15769	0	0	0	0	0	0	0	0	0	0	1,211	2,048	3,258	10
C-111 BASIN	S-177 +	S177	S177_S	15772	525	766	5,763	14,570	14,082	17,482	15,130	4,919	2,409	4,456	4,332	2,188	86,621	6
	S-178 +	S178	S178_C	03952	0	0	0	0	0	2,615	0	0	0	0	0	0	2,615	57
	S-331 +	S331-173	S331_P	P6935	2,143	19	72	9,143	16,974	29,149	47,016	24,909	40	143	156	49	129,814	7
	S-173 +	S331-173	S173_C	FB759	5,428	7,881	5,439	0	0	0	0	2,073	6,565	7,194	8,016	9,007	51,604	10
	S-332B+	S332B	S-332B	PK929	20	17	19	4,045	3,073	7,457	8,185	6,431	2,711	7	40	44	32,050	8
	S-332D +	S332D	S-332D	MS947	11	0	554	7,706	15,211	20,373	20,991	10,197	1,437	0	0	0	76,480	14

Notes: 1) Water quality sample site is located on upstream side of permitted structure, unless otherwise noted with different sampling location.

<sup>2)</sup> n/a indicates that flow and/or stage data is not available, or that structure is not appropriately instrumented to capture information.

<sup>3)</sup> Structure names with a "+" are upstream of Non-ECP INTO structures and are additional monitoring locations.

<sup>4)</sup> G-94A, G-94B, G-94C are not instrumented for flow calculations. Estimate provided for March 2001 when G-94C backflowed into WCA-1.

<sup>5)</sup> S-331 and S-173 flow records were combined to determine the annual flow-weighted mean TP.

<sup>6)</sup> NPF indicates either structure closed or that no positive flow was recorded on sampling days, thus a flow-weighted mean could not be calculated.